SLCC Anemometer Loan Program Application – 20-meter tower

Instructions

To participate in the program, please fill out this application in its entirety. If you are applying for more than one location, please complete separate applications for each specific site. Completion of the application does not guarantee an equipment loan, and the number of anemometer towers available will vary. Applications are due by June 1st. Anemometers are generally installed at a site for no less than one year.

If selected for a 20m tower loan, borrowers are required to provide 1-2 workers to assist with both installation and decommissioning. A backhoe is useful to aid the anchoring process, but is not required of the borrower. Without a backhoe, the borrower or the helpers they provide must help pound in anchors with a sledge hammer. Additionally, the borrower must contact their city and county and obtain any permits that might be required to erect a foundationless, guyed, temporary monopole structure.

The following factors are used to evaluate each proposed site:

Wind Resource Map: What is the quality of the wind resource as predicted on Utah's wind resource map? Sites located within or close to regions that have a high-predicted wind resource are looked upon favorably. However, this map is a model and gives only a rough estimate of available wind resources. Many quality sites have been identified inside areas that were predicted to have poor wind resources by this map. Utah's wind resource map can be viewed at http://www.energy.utah.gov/renewable_energy/wind/wind_resource_map.htm.

Favorable Topography: Do factors such as elevation, vegetation, and/or nearby land forms/topography suggest a quality wind resource? Factors that would suggest a quality wind site often include being higher than the surrounding area, being clear of obstructions that would create wind flow turbulence (large trees, buildings, geological features, etc.), tree/vegetation flagging (trees are permanently bent in direction of prevailing wind, with branches longer on the downwind side and shorter or missing on the upwind side), and proximity to mountains, valleys, or canyons that may accelerate wind flow. High elevation, whether on a ridge top or a plateau, can also suggest higher wind speeds.

Accessibility: Is there enough clear area at the proposed site to erect a tower and is it easily accessible? A clear, flat space of roughly 100ft x 100ft is required to erect a 20-meter tower.

Favorable Land Use: Is the site appropriate for a wind energy project? Are there (or will there be) building restrictions, zoning problems, or opposition from surrounding neighbors?

Project Purpose/Goal: Is the potential project expected to be large scale (commercial), medium scale (school, town, state, non-profit, Indian land), or small scale (private ownership, residential, business, ranch)? How clear are the objectives of the proposed plan? Who will use the power?

Transmission and Load: For large-scale projects, is the site near an electrical transmission line or a load center? For small-scale projects, is there an ability to use power generated on-site or locally?

Proximity to Past Anemometer Sites: Preference is given to sites near locations where data indicate there are quality wind resources and in promising areas where little or no data have been collected. Current and past ALP sites can be viewed at http://www.energy.utah.gov/renewable_energy/wind/anemometerdata/index.htm

Contact Information *(the person our office will be working with for the loan)***:**

Last Name_____ First Name_____

Mailing Address_____

City_____ State_____ Zip Code_____

Home Phone (include area code)_____ Cell Phone_____

Work Phone_____ Fax_____

E-mail_____

Landowner Information:

Go on to the next section if the Landowner and the Contact person are the same. If they are not the same, please fill out this section.

Last Name_____ First Name_____

Mailing Address_____

City_____ State_____ Zip Code_____

Home Phone (include area code)_____ Cell Phone_____

Work Phone_____ Fax_____

E-mail_____

Application History:

Have you applied with us before?_____

How many times?_____

What was the last year you applied?_____

Have you had an anemometer loan before?_____

How many times?_____

When was the last year you received a loan?_____

Project Description:

Purpose and goal of project for this location *(see instructions)*:

If data reveal favorable wind resources, what kind of wind project do you foresee pursuing? *(circle one)* Small (residential), Medium (community), Large (commercial), or Other _____

Location Specifics:

Physical Address_____

City/Town_____

County/Zip Code_____

Please provide **detailed** GPS Coordinates: (*i.e. degrees, minutes, and seconds*):
Latitude_____ Longitude_____

Topographic Map: *Please mark the proposed site on a topographic 7.5' quadrangle map or quality Google-type map and include with application. You can purchase maps from the Department of Natural Resources Map and Bookstore (mapstore.utah.gov) or access them online at geology.utah.gov/maps/topomap/index.htm. If you would like help with this please contact our office.*

Proposed Site Elevation (in feet)_____

Is the land where the anemometer will be placed higher than the surrounding area?_____

Cleared Area: Approximate square feet_____ *or* acres_____
(Roughly 100ft x 100ft of level ground is required to erect a 20-meter tower)

Accessibility: How far is the site from the nearest paved road? _____ Unpaved road?_____

Can the site be easily accessed with a vehicle?_____

Soil type at site: *(circle one)* Ledge, Rocky, Clay, Sandy, Topsoil

Restrictions: Are there any local restrictions on structure height, zoning, building, or other requirements?_____ If so what are they?_____
_____

How far is the nearest neighbor from the site?
approximate feet_____ *or* miles_____

How far is the nearest structure?
approximate feet_____ *or* miles_____

Please describe the site *(i.e. vegetation, topography, obstacles, etc. Photographs of the site are also helpful)*:

Please explain why you feel this would be a good site for a wind study:

Property Line: How far is the nearest property line from the site?
approximate feet_____ *or* miles_____

Name of the nearest airport_____

Approximate distance to the airport_____

Transmission/Distribution Lines:

How far are you from electrical transmission or distribution lines?
approximate feet_____ *or* miles_____

What is the voltage of these transmission/distribution lines (if known)? _____

Who owns these lines?_____

Please describe these lines:

Have you discussed the possibility of placing a wind turbine at your site with your local utility? If so, what was said?

Name of utility_____

Utility contact name and phone number_____

Did the utility agree to provide transmission? *(circle one)* Yes or No

Site Monitoring:

Who will be responsible for monitoring the equipment and sending in the data chip?

_____

If you have any questions about this application please contact:

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